OIPE IAP61
OCT 04 2006
PATENT & TRADEMARK OFFICE

Atty. Dkt. No. 327823-1100

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Xiong GONG, et al.

Title: WHITE ELECTROPHOSPHORESCENCE FROM SEMICONDUCTING POLYMER BLENDS

Appl. No.: 10/680,084

Filing Date: 10/6/2003

Examiner: Camie S. Thomspson

Art Unit: 1774

Conf. No.: 9929

CERTIFICATE OF MAILING
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Esther Lily C. Esguerra
(Printed Name)

(Signature)

October 2, 2006
(Date of Deposit)

FIRST INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.56

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56.

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

10/06/2006 RMEBRAHT 00000008 10680084
01 FC:1806 180.00 OP

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(c), before the mailing date of either a final action under 37 CFR §1.113, a notice of allowance under 37 CFR §1.311, or an action that otherwise closes prosecution in the application.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

FEE

A credit card payment form in the amount of $180.00 is enclosed in accordance with 37 CFR §1.17(p) to cover the fee associated with an information disclosure statement under 37 CFR §1.97(c) in the amount of $180.00.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 50-0872. Should no proper payment be enclosed herewith, as by the credit card payment form being unsigned, providing incorrect information resulting in a rejected credit card transaction, or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-0872.

Respectfully submitted,

Date: October 2, 2006

By _____

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William H. Benz
Attorney for Applicant
Registration No. 25,952

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Date Submitted: September 25, 2006

(use as many sheets as necessary)

Sheet 1 of 3

Complete if Known	
Application Number	10/680,084
Filing Date	10/6/2003
First Named Inventor	Xiong GONG
Group Art Unit	1774
Examiner Name	Camie S. Thomspson
Attorney Docket Number	327823-1100

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	U.S. Patent Document Number	U.S. Patent Document Kind Code[2] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS

Examiner Initials*	Cite No.[1]	U.S. Patent Application Document Serial Number	U.S. Patent Application Document Kind Code[2] (if known)	Name of Patentee or Applicant of Cited Document	Filing Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Office[3]	Number[4]	Kind Code[5] (if known)	Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	1	WO	03/059015		The Trustees of Princeton University; University of So. California	7/17/2003		
	2	GB	2340304		Cambridge Display Technology Ltd.	02/16/2000		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[6]
	3	BRAUN et al. "Visible light emission from semiconducting polymer diodes" *Appl. Phys. Letters* (1991) 58:1982-1984	
	4	CHAO et al. "White light emission from exciplex in a bilayer device with two blue light-emitting polymers" *Appl. Phys. Letters* (1998) 73:426-428	

Examiner Signature		Date Considered	

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Date Submitted: September 25, 2006

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Sheet 2 of 3

Complete if Known	
Application Number	10/680,084
Filing Date	10/6/2003
First Named Inventor	Xiong GONG
Group Art Unit	1774
Examiner Name	Camie S. Thomspson
Attorney Docket Number	327823-1100

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Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[6]
	5	CHEN et al. "Triplet excition confinement in phosphorescent polymer light-emitting diodes" *Applied Physics Letters* (2003) 82(7):1006-1008	
	6	deJONG et al. "Stability of the interface between indium-tin-oxide and poly(3,4-ethylenedioxythiophene)/poly(styrenesulfonate) in polymer light-emitting diodes" *Appl. Phys. Letters* (2000) 77:2255-2257	
	7	FRIEND et al. "Electroluminescence in conjugated polymers" *Nature* (1999) 397:121-128	
	8	GONG et al. "Red electrophosphorescence from polymer doped with iridium complex " *Appl. Phys. Letters* (2002) 81:3711-3713	
	9	GONG et al. "Stabilized Blue Emission from Plyfluorene-Based Light-Emitting Diodes: Elimination of Fluorenone Defects" *Adv. Func. Mater.* (2003) 13:325-330	
	10	GONG et al. "High-performance polymer light-emitting diodes fabricated with a polymer hole injection layer" *Appl. Phys. Letters* (2003) 83:183-185	
	11	GONG et al. "Electrophosphorescence from a Conjugated Copolymer Doped with an Iridium Complex: High Brightness and Improved Operational Stability" *Adv. Mat.* (2003) 15:45-49	
	12	GRECZYNSKI et al. "Characterization of the PEDOT-PSS system by means of X-ray and ultraviolet photoelectron spectroscopy" *Thin Solid Films* (1999) 354:129-135	
	13	HAMADA et al. "White-Light-Emitting Material for Organic Electroluminescent Devices" *Jpn. J. Appl. Physics* (1996) 35:1339-1341	
	14	HEEGER et al. "Light Emission from Semiconducting Polymers: Light-Emitting Diodes, Light-Emitting Electrochemical Cells, Lasers and White Light for the Future" *Solid State Commu.* (1998) 107:673-679	
	15	HEEGER et al. "Nobel Lecture: Semiconducting and metallic polymers: The fourth generation of polymeric materials" *Rev. Modern Phys.* (2001) 73:681-700	
	16	HIDE et al. "White light from InGaN/conjugated polymer hybrid light-emitting diodes" *Appl. Phys. Letters* (1997) 70:2664-2666	
	17	JE-JUNG et al. "Opto-Electric Properties in the Phosphor Doped Polymeric Light-Emitting Diodes" *Proceedings of the SPIE – The International Society for Optical Engineering SPIE-Int. Soc. Opt. Eng USA* (2002) 4641:60-67	

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Date Submitted: September 26, 2006

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Sheet 3 of 3

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Group Art Unit	1774
Examiner Name	Camie S. Thomspson
Attorney Docket Number	327823-1100

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	18	KAWAMURA et al. "Energy transfer in polymer electrophosphorescent light emitting devices with single and multiple doped luminescent layers" *J. of Applied Physics* (2002) 92(1):87-93	
	19	KIDO et al. "White light-emitting organic electroluminescent devices using the poly(*N*-vinylcarbazole) emitter layer doped with three fluorescent dyes" *Appl. Phys. Letters* (1994) 64:815-817	
	20	KIDO et al. "Single-layer white light-emitting organic electroluminescent devices based on dye-dispersed poly(*N*-vinylcarbozole)" *Appl. Phys. Letters* (1995) 67:2281-2283	
	21	MÜLLER et al. "Mutli-colour organic light-emitting displays by solution processing" *Nature* (200) 421:829-833	
	22	OSTROWSKI et al. "Amorphous iridium complexes for electrophosphorescent light emitting devices" *Chem. Commun.* (2002) 7:784-785	
	23	PARK et al. "Preparation and chemiluminescent properties of perylene-containing polyimides as polymeric red fluorophores" *Synthe. Met.* (2003) 177-184	
	24	STRUKELJ et al. "Organic Multilayer White Light Emitting Diodes" *American Chem. Society* (1996) 118:1213-1214	
	25	TANAKA et al. "White Light Emission from Polymer Electrophosphorescent Light-Emitting Devices Doped with Iridium Complexes" *Jpn. J. Appl. Physics* (2003) 42:2737-2740	
	26	TOKITO et al. "High-efficiency phosphorescent polymer light-emitting devices" *Organic Electronics, Elsevier, Amsterdam* (2003) 4(2/3):105-111	
	27	WANG et al. "Multicolor multilayer light-emitting devices based on pyridine-containing conjugated polymers and para-sexiphenyl oligomer" *Appl. Phys. Letters* (1999) 74:3613-3615	
	28	ZHANG et al. "Use of Kubo formalism to study transport beyond the Born approximation: Application to low-temperature transport in Si metal-oxide-semiconductor field-effect transistors" *Appl. Phys. Letters* (1998) 73:1577-1579	
	29	International Search Report, PCT/US2004/032756 dated April 1, 2005.	

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